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531 Rec'd PCT/F 09 JAN 2002

UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner: Group: Attorney Docket # 1913

#3/a

Applicant(s) : HENKEL, A., ET AL

Serial No. :

Filed :

For : APPARATUS FOR REGULATING THE EXCITER
CURRENT FOR A ROTARY-CURRENT GENERATOR

SIMULTANEOUS AMENDMENT

January 9, 2002

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

S I R S:

Simultaneously with filing of the above identified application
please amend the same as follows:

In the Claims:

Cancel all claims without prejudice.

Substitute the claims attached hereto.

REMARKS:

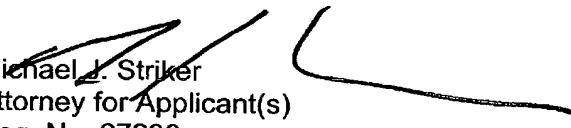
This Amendment is submitted simultaneously with filing of the above identified
application.

With the present Amendment applicant has amended the claims so as to eliminate
their multiple dependency.

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Consideration and allowance of the present application is most respectfully requested.

Respectfully submitted,


Michael J. Striker
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Claims

1. An apparatus for regulating the exciter current for a rotary-current generator, having

a voltage source,

a rectifier connected to the voltage source,

5 three phase windings connected to the rectifier,

one evaluation unit connected to one phase winding, and

one voltage regulator, whose input is connected to the evaluation unit and whose output is connected to the exciter winding of the rotary-current generator,

10 characterized in that

the evaluation unit (9) has three input terminals (10, 11, 12), and each of these input terminals is connected to one of the phase windings (5, 6, 7) of the rotary-current generator (2);

15 the evaluation unit (9) is intended for evaluating the phase voltages associated with the three phase windings, in order to detect unauthorized work states; and

the voltage regulator (3) on detecting unauthorized work states reduces the exciter current flowing through the exciter winding (8).

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2. The apparatus of claim 1, characterized in that the evaluation unit (9) is a component of the voltage regulator (3).

3. The apparatus of claim 1 [or 2], characterized in that the evaluation unit (9) has a fourth input terminal (14), which is connected to the positive pole of the voltage source (1), and that the evaluation unit has one terminal (15) connected to
5 ground potential.

4. The apparatus of [one of the foregoing claims] claim 1, characterized in that the evaluation unit serves to detect error functions of the rectifier.

5. The apparatus of [one of the foregoing claims] claim 1, characterized in that the evaluation unit serves to detect error functions of one of the phase windings.

6. The apparatus of [one of the foregoing claims] claim 1, characterized in that the evaluation unit evaluates all three phase voltages for amplitude and/or frequency.

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Claims

1. An apparatus for regulating the exciter current for a rotary-current generator, having

a voltage source,

a rectifier connected to the voltage source,

5 three phase windings connected to the rectifier,

one evaluation unit connected to one phase winding, and

one voltage regulator, whose input is connected to the evaluation unit and whose output is connected to the exciter winding of the rotary-current generator,

characterized in that

the evaluation unit (9) has three input terminals (10, 11, 12), and each of these input terminals is connected to one of the phase windings (5, 6, 7) of the rotary-current generator (2);

15 the evaluation unit (9) is intended for evaluating the phase voltages associated with the three phase windings, in order to detect unauthorized work states; and

the voltage regulator (3) on detecting unauthorized work states reduces the exciter current flowing through the exciter winding (8).

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2. The apparatus of claim 1, characterized in that the evaluation unit (9) is a component of the voltage regulator (3).

3. The apparatus of claim 1, characterized in that the evaluation unit (9) has a fourth input terminal (14), which is connected to the positive pole of the voltage source (1), and that the evaluation unit has one terminal (15) connected to
5 ground potential.

4. The apparatus of claim 1, characterized in that the evaluation unit serves to detect error functions of the rectifier.

5. The apparatus of claim 1, characterized in that the evaluation unit serves to detect error functions of one of the phase windings.

6. The apparatus of claim 1, characterized in that the evaluation unit evaluates all three phase voltages for amplitude and/or frequency.

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